

II. DESIGN TABLES

The design tables, found towards the end of this publication, address a variety of different loading conditions and footing configurations. If you have a loading condition that is not shown in this publication, you must have a licensed professional engineer or architect design the wall specifically for conditions existing on the site. Examples of loading conditions not covered in this publication include walls supporting building foundations and walls subjected to truck traffic surcharge greater than 250 psf, unless those loads are applied away from the wall a distance at least equal to the height of the wall.

Retaining wall height is measured from the top of the footing to the top of the wall. You must not build higher than the design height of the wall.

III. BLOCK

All block must be Type "N", grouted solid. (Design $f'_m = 1,500$ psi)

IV. CONCRETE MIX REQUIREMENTS

Note: Use of plastic cement is not permitted in retaining walls located in this Seismic Zone.

A. The concrete mix **footings** must have a compressive strength of at least $f'_c = 2,500$ psi in 28 days. You may use a mix containing the following proportions by volume.

- 1 part Portland cement
- 2 1/2 parts sand
- 3 1/2 parts 3/4-inch maximum-size gravel
- 7 gallons of water maximum per sack of cement

Note: Hand mixed concrete and grout are not permitted on projects subject to the "Standard Specifications for Public Works Construction" ("Green Book").

B. The **mortar** mix must have a compressive strength of at least 1,800 psi. You may use a mix containing the following proportions by volume:

- 1 part Portland cement
- 3 1/2 parts sand
- 1/4 part hydrated lime or lime putty

C. **Grout** must have a compressive strength of at least 2,000 psi in 28 days. You may use a mix containing the following proportions by volume:

- 1 part Portland cement
- 3 parts sand
- 2 parts pea gravel (3/8-inch aggregate)

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